

Mr. H. D. Gowey, North Lewisburgh, Ohio: sun spots were observed on the 20th, 21st, and 24th.

○ DROUGHT.

At Minden, Nebr., the month was very dry; no fall plowing was done; and pastures were injured. At Howe, Nebr., no rain fell after the 15th, and wells were failing. Drought prevailed at Concordia, Kans.; many wells were dry and water was scarce. At Hannibal, Mo., no rain fell after the 15th; water for stock was scarce and wheat suffered by drought. At Pickering, Mo., the month was dry; streams were very low; water for stock scarce, and the ground too dry to plow. At Woonsocket, S. Dak., the drought continued during the month, and very little plowing was done. A report from Marshall, Minn., dated the 1st, stated that Island Lake, Goose Lake, and Lake Stay were dry.

○ PRAIRIE AND FOREST FIRES.

On the 2d extensive prairie fires were reported near New

England City, N. Dak., and north and east of Bismarck, N. Dak. Prairie fires were reported south and west of Bismarck on the 4th. On the 9th prairie fires occurred at Cannon Ball, N. Dak. Destructive prairie fires were reported along the Cannon Ball, Knife, and Heart Rivers, N. Dak., during the first half of the month. Reports of the 21st from Los Angeles, Cal., state that extensive mountain fires prevailed near the Santa Monica Cañon, and grass fires on the plains, causing considerable damage. A report from San Diego, Cal., dated the 22d, states that brush fires prevailed, with hot, dry winds from the n. and nw., badly drying and burning raisin grapes. On the 2d timber fires had caused great damage near Rapid City, S. Dak.; several ranches were burned, and many telegraph poles were destroyed. On the 3d snow and rain nearly extinguished the fires. Destructive fires were also reported in the region of Rapid City on the 5th and 31st. Forest fires were reported near Red Bluff, Cal., on the 9th, 10th, 11th, 15th, and 25th to 31st.

○ VERIFICATIONS.

[Verifications made by Assistant Professor C. F. Marvin, assisted by Mr. H. E. Williams, chief clerk of the Forecast Division.]

○ FORECASTS FOR 24 HOURS IN ADVANCE.

The forecasts for districts east of the Rocky Mountains for October, 1890, were made by 2d Lieut. W. A. Glassford, Signal Corps, and those for the Pacific coast districts were made at San Francisco, Cal., by 2d Lieutenant John P. Finley, Signal Corps.

Percentages of forecasts verified, October, 1890.

States.		States.	
Maine.....	80.3	Kentucky.....	85.7
New Hampshire.....	73.2	Ohio.....	84.8
Vermont.....	75.0	West Virginia.....	86.4
Massachusetts.....	76.3	Indiana.....	82.6
Rhode Island.....	86.8	Illinois.....	81.0
Connecticut.....	82.1	Lower Michigan.....	78.9
Eastern New York.....	84.3	Upper Michigan.....	76.4
Western New York.....	84.1	Wisconsin.....	75.4
Eastern Pennsylvania.....	86.8	Minnesota.....	77.7
Western Pennsylvania.....	79.3	Iowa.....	75.2
New Jersey.....	87.1	Kansas.....	83.1
Delaware.....	84.3	Nebraska.....	86.3
Maryland.....	86.6	Missouri.....	77.7
District of Columbia.....	88.3	Colorado.....	83.0
Virginia.....	84.0	North Dakota.....	78.7
North Carolina.....	84.3	South Dakota.....	83.2
South Carolina.....	92.7	Southern California*.....	91.8
Georgia.....	92.8	Northern California*.....	89.8
Eastern Florida.....	90.6	Oregon*.....	83.2
Western Florida.....	92.1	Washington*.....	80.9
Alabama.....	91.4	By elements: Weather.....	88.5
Mississippi.....	91.0	Temperature.....	77.1
Louisiana.....	90.8	Monthly percentage of weather and temperature combined.....	83.9
Texas.....	85.9		
Arkansas.....	85.9		
Tennessee.....	87.0		

*In determining the monthly percentage of weather and temperature combined, the Pacific coast states are not included. †The forecasts of temperature in districts east of the Rocky Mountains for October, 1890, were made with reference to the maximum temperature alone; that is, a prediction of warmer or cooler indicated that the maximum temperature of the day designated would be higher or lower than the maximum of the previous day. ‡The monthly percentage of weather and temperature combined is determined by multiplying the percentage of weather by 6, and the percentage of temperature by 4, and dividing their sum by 10.

○ FORECASTS FOR 48 HOURS IN ADVANCE.

Appreciating the great importance that long time predic-

tions possess for the general public the Chief Signal Officer has authorized forecasts for 48 and 72 hours, covering the 2d and 3d days in advance. These are optional with the forecast official, and are only made when clearly in the public interest, and cover, in all cases, considerable areas of country, and are not confined to localities.

Percentages of verifications of forecasts made for second day in advance. Number of predictions made: weather, 11; temperature, 3. Percentages of verifications: weather, 60.0; temperature, 83.3; weather and temperature combined, 63.6. No forecasts for 72 hours were made during the month.

○ CAUTIONARY SIGNALS FOR OCTOBER, 1890.

Statement showing percentages of justifications of wind signals for the month of October, 1890:

Wind signals.—(Ordered by 2d Lieut. W. A. Glassford). Total number of signals ordered, 121; justified as to velocity, wholly, 79, partly, 9; justified as to direction, 112. Of the signals ordered 88 were cautionary, of which 54 were wholly, and 6 partly justified; and 33 were storm signals, of which 25 were wholly, and 3 partly justified. 48 signals were ordered for easterly winds, of which 42 were justified, and 73 were ordered for westerly winds, of which 70 were justified. Percentage of justifications, 71.7.

No cold-wave signals were ordered during the month.

Percentages of verifications of weather and temperature signals reported by directors of the various State Weather Services for October, 1890.

States.	Weather.	Temperature.	States.	Weather.	Temperature.
Iowa.....	86	88	Nebraska.....	84	84
Illinois.....	75	71	New Jersey.....	83	88
Kansas.....	83	90	North and South Dakota.....	68	84
Michigan.....	82	87	Ohio.....	82	89
Minnesota.....	70	83	Pennsylvania.....	78	87
Missouri.....	79	84	South Carolina.....	80	90

○ STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for October, 1890, of the directors of the various state weather services:

○ ARKANSAS.

Temperature.—The mean was 1.7 below the normal; maximum, 91, at Lead Hill, 12th; minimum, 26, at Devall's Bluff and Stuttgart, 31st; greatest monthly range, 61, at Lead Hill; least monthly range, 32, at Malvern.

Precipitation.—The average was 1.00 above the normal of the last 8 years;

greatest monthly, 4.46, at Camden; least monthly, 1.46, at Pine Bluff.—*M. F. Locke, Commissioner of Agriculture, Little Rock, director; F. H. Clarke, Sergeant, Signal Corps, assistant.*

○ ALABAMA.

Temperature.—The mean was 2.5 below the normal; maximum, 93, at

Citronelle, 4th and 5th; minimum, 28, at Valley Head, 81st; greatest monthly range, 57, at Valley Head.

Precipitation.—The average was 1.54 above the normal; greatest monthly, 7.88, at Opelika; least monthly, 1.90, at Fort Deposit.

Wind.—Prevailing direction, northwest.—*Prof. P. H. Mell, Auburn, director; J. M. Quarles, Private, Signal Corps, assistant.*

COLORADO.

Temperature.—The mean corresponded with the normal of the last 5 years; maximum, 93, at Sterling, 19th; minimum, —10, at Breckenridge, 23d; greatest monthly range, 95, at Breckenridge; least monthly range, 80, at Byers.

Precipitation.—The average was somewhat below the normal of the last 5 years; greatest monthly, 3.26, at Cumbres; least monthly, 0.00, at several stations.

Wind.—Prevailing direction, west.—*W. S. Miller, Sergeant, Signal Corps, Colorado Springs, assistant.*

ILLINOIS.

Temperature.—The mean was 1.0 below the normal of the last 15 years; maximum, 94, at East Peoria, 12th; minimum, 20, at Atwood and Sandwich, 81st.

Precipitation.—The average was 0.26 below the normal of the last 12 years; greatest monthly, 6.40, at Winnebago; least monthly, 0.60, at Iriatown.

Wind.—Prevailing direction, northwest.—*John Craig, Sergeant, Signal Corps, Springfield, in charge.*

INDIANA.

Temperature.—Maximum, 65, at Huntingburgh, Princeton, Marengo, Vevey, and Seymour, 12th; minimum, 20, at Point Isabel, 31st; greatest monthly range, 58, at Point Isabel; least monthly range, 42, at Angola.

Precipitation.—Greatest monthly, 4.60, at Marengo; least monthly, 2.05, at Muncie.

Wind.—Prevailing direction, northwest.—*Prof. H. A. Huston, La Fayette, director; C. F. R. Wappenhans, Sergeant, Signal Corps, assistant.*

IOWA WEATHER AND CROP SERVICE.

Temperature.—The mean was slightly below the normal; maximum, 86, at Keokuk, 12th; minimum, 16, at Cresco and Webster City, 31st; greatest monthly range, 64, at Keokuk; least monthly range, 47, at Iowa City.

Precipitation.—Greatest monthly, 6.82, at Monticello; least monthly, 1.09, at Omaha, Nebr.

Wind.—Prevailing direction, northwest.—*J. R. Sage, Des Moines, director; G. M. Chappel, Sergeant, Signal Corps, assistant.*

KANSAS.

Temperature.—The mean was 1.0 above the normal; maximum, 91, at Sedan, 10th; minimum, 9, at Lakin, 16th; greatest monthly range, 77, at Lakin; least monthly range, 50, at Leavenworth, Weskan, and Winona.

Precipitation.—The average was 0.52 above the normal; greatest monthly, 6.98, at Lebo; least monthly, 0.00, at Ellis.

Wind.—Prevailing direction, south.—*Prof. J. T. Lovewell, Topeka, director; T. B. Jennings, Sergeant, Signal Corps, assistant.*

KENTUCKY.

Temperature.—The mean was slightly below the normal; maximum, 87, at Frankfort, 12th; minimum, 28, at Princeton, 31st; greatest monthly range, 58, at Princeton; least monthly range, 44, at Caddo.

Precipitation.—The average was nearly normal; greatest monthly, 5.17, at Edmonton; least monthly, 2.00, at Earlington.

Wind.—Prevailing direction, southwest.—*Dr. E. A. Grant, Louisville, director; Frank Burke, Sergeant, Signal Corps, assistant.*

LOUISIANA.

Temperature.—The mean was slightly above the normal for the first half of the month and below for the latter half; maximum, 94, at Cameron, 5th and 12th; minimum, 83, at Davis, 26th; greatest monthly range, 58, at State Experiment Station; least monthly range, 38, at New Orleans.

Precipitation.—Greatest monthly, 8.04, at Abbeville; least monthly, 2.90, at Homer.

Wind.—Prevailing direction, north.—*George E. Hunt, Sergeant, Signal Corps, New Orleans, in charge.*

MICHIGAN.

Temperature.—The mean was 0.6 below the normal of the last 15 years; maximum, 82, at Clinton and Adrian, 13th; minimum, 21, at Roscommon, 22d; greatest monthly range, 60, at Otsego; least monthly range, 23, at Atlantic.

Precipitation.—The average was 1.60 above the normal of the last 15 years; greatest monthly, 11.02, at Berlin; least monthly, 0.68, at Crystal Falls.

Wind.—Prevailing direction, northwest.—*N. B. Conger, Sergeant, Signal Corps, Lansing, director.*

MINNESOTA.

Temperature.—Maximum, 79, at Crookston, 2d; minimum, 12, at Pokegama Falls, 31st; greatest monthly range, 64, at Pokegama Falls; least monthly range, 42, at Duluth and Farmington.

Precipitation.—Greatest monthly, 5.14, at La Crosse, Wis.; least monthly, 1.64, at Morris.

Wind.—Prevailing direction, northwest.—*John Healy, Corporal, Signal Corps, Saint Paul, in charge.*

MISSISSIPPI.

Temperature.—The mean was 2 below the normal; maximum, 95, at Vai-

den, 5th and 9th; minimum, 26, at Aberdeen, 31st; greatest monthly range, 64, at Vaiden; least monthly range, 36, at Bay Saint Louis.

Precipitation.—The average was 0.04 above the normal; greatest monthly, 6.31, at Moss Point; least monthly, 0.17, at Jackson.—*R. B. Fulton, Signal Corps, University, director.*

MISSOURI.

Temperature.—The mean was 1.1 above the normal; maximum, 91, at Protom, 12th; minimum, 22, at Fayette.

Precipitation.—Greatest monthly, 5.08, at Kansas City; least monthly, 0.88, at Fox Creek.—*Prof. Francis E. Nipher, Saint Louis, director.*

METEOROLOGICAL REPORT OF THE MISSOURI STATE BOARD OF AGRICULTURE.

Temperature.—Maximum, 91, at Protom, 12th; minimum, 16, at Centreville, 31st; greatest monthly range, 67, at Adrian, and Centreville; least monthly range, 44, at Warrenton.

Precipitation.—Greatest monthly, 5.19, at Carrollton; least monthly, 0.40, at New Haven.

Wind.—Prevailing direction, south.—*Levi Chubbuck, Secretary of State Board of Agriculture, Columbia, director; A. L. McRae, Sergeant, Signal Corps, assistant.*

NEBRASKA.

Temperature.—The mean was nearly normal; maximum, 92, at Superior; minimum, 8, at Alliance.

Precipitation.—The rainfall was nearly normal; there was less than 1.00 in the west part of the state, and in the east half more than 1.00, with a maximum rainfall of 3.28 at Superior.—*Prof. Goodwin D. Swezey, Crete, director; G. A. Loveland, Sergeant, Signal Corps, assistant.*

NEVADA.

Temperature.—The mean was 2.2 below the normal; maximum, 92, at El Dorado Canyon, 7th; minimum, 8, at Pioche, 11th; greatest monthly range, 65, at Pioche; least monthly range, 21, at Austin.

Precipitation.—The average was 0.44 below the normal; greatest monthly, 1.25, at Downeyville; least monthly, 0.00, at several stations.—*Prof. Charles W. Friend, Carson City, director; H. E. Wilkinson, Corporal, Signal Corps, assistant.*

NEW ENGLAND METEOROLOGICAL SOCIETY.

Temperature.—The mean was 1.0 below the normal; maximum, 84, at Lowell (d), 2d; minimum, 12, at West Milan, 23d; greatest monthly range, 63, at West Milan; least monthly range, 29, at Nantucket and Block Island.

Precipitation.—The average was 3.20 above the normal; greatest, 10.85, at Westborough; least monthly, 2.02, at Burlington.

Wind.—Prevailing direction, northwest.—*Prof. William H. Niles, Boston, Mass., president; Prof. Winslow Upton, Providence, R. I., secretary; J. Warren Smith, Private, Signal Corps, assistant.*

NEW JERSEY.

Temperature.—The mean was 0.4 below the normal; maximum, 81, at Beverly, 1st; minimum, 24, at Tenafly, 31st; greatest monthly range, 58, at Beverly; least monthly range, 33, at Ocean City.

Precipitation.—The average was 3.14 above the normal; greatest monthly, 10.18, at Oceanic; least monthly, 3.40, at Ocean City.

Wind.—Prevailing direction, northwest.—*E. W. McGann, Sergeant, Signal Corps, New Brunswick, in charge.*

NEW YORK.

The month was unusually wet and cool.

Temperature.—Maximum, 82, at East Hampton, 1st; minimum, 24, at Hyndsville, 2d, and at Marshland, 14th; greatest monthly range, 58, at Keene Valley and Rondout; least monthly range, 34, at Brooklyn and Setauket.

Precipitation.—Greatest monthly, 10.20, at Setauket; least monthly, 2.25, at Massena.

Wind.—Prevailing direction, northwest.—*Prof. E. A. Fuertes, Ithaca, director; R. M. Hardinge, Private, Signal Corps, assistant.*

NORTH CAROLINA.

Temperature.—The mean was 2.4 below the normal; maximum, 89, at Washington, 7th; minimum, 22, at Franklin, 28th.

Precipitation.—The average was 0.50 above the normal; greatest monthly, 7.61, at Washington; least monthly, 1.88, at Wilmington.

Wind.—Prevailing direction, northwest.—*Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Sergeant, Signal Corps, assistant.*

NORTH AND SOUTH DAKOTA.

Temperature.—The mean was 1.8 above the normal; maximum, 85, at Fort Sully, S. Dak., 8d, and at Millbank, S. Dak., 2d; minimum, 10, at Howard, S. Dak., 26th; greatest monthly range, 75, at Steele, N. Dak.; least monthly range, 47, at Scranton, S. Dak.

Precipitation.—The average was about 0.81 below the normal; greatest monthly, 3.59, at Grand Forks, N. Dak.; least monthly, 0.25, at Onida, S. Dak.

Wind.—Prevailing direction, northwest.—*S. W. Glenn, Sergeant, Signal Corps, Huron, S. Dak., in charge.*

OHIO.

Temperature.—The mean for the northern section, middle section, the southern section, and of the state was 1.2, 1.6, 1.3, and 1.4, respectively, above the average for the sections and the state; maximum, 85, at Logan

and Georgetown, 12th, and at Hanging Rock, Waverly, and Logan, 13th; minimum, 29, at Yellow Springs, 30th.

Precipitation.—The average for the northern section, the middle section, the southern section, and the state was 2.79, 1.13, 0.60, and 1.51, respectively, above the normal for the sections and state; greatest monthly, 8.29, at Jefferson; least monthly, 1.45, at Greenville.—*Prof. B. F. Thomas, Columbus, director; C. M. Strong, Sergeant, Signal Corps, secretary and assistant.*

OREGON.

The characteristics of the month were the deficiency in temperature and precipitation.

Temperature.—The mean was 1.4 below the normal; maximum, 81, at Lakeview, 29th; minimum, 11, at North Powder, 13th.

Precipitation.—The average was 0.89 below the normal; greatest monthly, 6.89, at Cascade Locks; least monthly, trace, at Beulah.

Wind.—Prevailing direction, southwest.—*Hon. H. E. Hayes, Master State Grange, Oswego, director; B. S. Pague, Sergeant, Signal Corps, assistant.*

PENNSYLVANIA.

Temperature.—The mean was 1.0 below the normal; maximum, 81, at Selin's Grove, 15th; minimum, 21, at Dyberry, 31st; greatest monthly range, 55, at Wilkes Barre; least monthly range, 36, at Altoona.

Precipitation.—The average was 2.50 above the normal; greatest monthly, 8.41, at Eagle's Mere; least monthly, 4.03, at Mauch Chunk.

Wind.—Prevailing direction, west.—*Under direction of the Franklin Institute, Philadelphia; T. F. Townsend, Sergeant, Signal Corps, assistant.*

SOUTH CAROLINA.

Temperature.—Maximum, 90, at Spartanburgh, 12th; minimum, 22, at Spartanburgh, 28th and 30th; greatest monthly range, 68, at Spartanburgh; least monthly range, 41, at Camden and Conway.

Precipitation.—Greatest monthly, 7.19, at Evergreen; least monthly, 0.99, at Branchville.—*A. P. Butler, director, State Weather Service, and observer, Signal Service.*

TENNESSEE.

The meteorological features of the month were for the most part normal.

Temperature.—The mean was about normal; maximum, 88, at Franklin, 12th; minimum, 26, at Hohenwald, 31st; greatest monthly range, 58, at Franklin and Hohenwald; least monthly range, 46, at Greeneville and Jacksboro.

Precipitation.—The average was considerably in excess of the normal for the last eight years; greatest monthly, 5.80, at Dare; least monthly, 1.22, at Strawberry Plains.

Wind.—Prevailing directions, west and northwest.—*J. D. Plunket, M. D., Nashville, director; H. C. Bate, Signal Corps, assistant.*

TEXAS.

Temperature.—The mean was normal in all parts of the state except in the vicinity of the coast and over the eastern portions, where it averaged 1.0 below the normal; maximum, 98, at Rio Grande City, 5th; minimum, 25, at Coldwater, 15th; greatest monthly range, 64, at Coldwater; least monthly range, 18, at La Grange.

Precipitation.—The average was about normal in the vicinity of the coast, from 1.00 to 3.00 above over the central and eastern portions, and 1.00 below over the other portions of the state; greatest monthly, 9.01, at Palestine; least monthly, 0.24, at Coldwater.—*D. D. Bryan, Galveston, director; I. M. Cline, Sergeant, Signal Corps, assistant.*

WISCONSIN.

Temperature.—The mean was 1.5 below the normal; maximum, 78, at Hayward, 1st; minimum, 16, at Hayward, 16th.

Precipitation.—The average was 1.24 above the normal; greatest monthly, 5.89, at Oshkosh; least monthly, 2.02, at Plover.

Wind.—Prevailing direction, northwest.—*R. E. Kerkam, Sergeant, Signal Corps, in charge.*

Meteorological record of Army post surgeons, voluntary, and other co-operating observers, October, 1890.

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.		Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.				Max.	Min.	Mean.	
Arizona—Cont'd.	0	0	0	Ins.		California—Cont'd.	0	0	0	Ins.
Florence	91	37	66.1	0.41		Evergreen	92	45	63.9	0.00
Fort Apache	83	28	55.3	1.91		Farmington	95	35	66.6	0.00
Fort Bowie	76	43	60.8	1.60		Felton	95	38	67.0	0.00
Fort Grant	78	39	61.4	1.62		Fernando	95	48	61.1	0.00
Fort Huachuca	80	40	62.0	0.37		Florence	95	48	61.1	0.00
Fort Lowell	98	35	67.2	0.77		Folsom	95	48	61.3	0.00
Fort McDowell	97	39	70.5	1.07		Fort Gaston	82	31	55.3	0.54
Gila Bend (1)*	88	56	74.7	0.00		Fort Mason	81	45	58.8	0.00
Gila Bend (2)	100	55	73.3	0.05		Fresno	90	50	69.3	0.00
Grand Central Mill				0.90		Fruito	91	41	64.0	0.00
Holbrook	75	24	51.8	0.62		Galt	95	45	63.2	0.00
Lochiel	77	42	57.5	0.88		Georgetown	82	38	59.6	0.19
Maricopa	81	61	69.4	0.07		Gilroy	92	40	61.2	0.00
Mount Huachuca	83	38	59.5	0.69		Girard	95	35	59.4	0.00
Natural Bridge				1.46		Glen Ellen	90	34	59.5	0.06
New River	86	40	64.6	3.27		Goshen	86	50	70.0	0.00
Oro				1.80		Grass Valley				0.05
Pantano	98	53	71.9	0.75		Haywards	76	42	56.5	0.00
Payson				2.06		Hollister	92	39	59.7	0.00
San Carlos		35		1.22		Hornbrook	75	30	52.8	0.00
Show Low				1.10		Jane	86	40	59.4	0.00
Signal	90	43	67.2	1.49		Jane	86	40	59.4	0.00
Strawberry				1.83		Julian	77	42	58.4	0.35
Tempe				0.15		Keeler	78	55	66.8	0.00
Tevison				0.00		Keene	84	38	58.7	0.03
Texas Hill	94	50	72.9	0.03		Kingsburgh	86	40	62.1	0.00
Tip Top		45	63.6	2.36		King City	99	32	65.2	0.00
Tomestone	86	40	63.9	0.00		Knight's Landing	84	49	63.4	0.00
Tucson (1)	89	41	67.0	0.62		La Grange	92	42	64.5	0.00
Tucson (2)	93	64	77.8	0.65		Lathrop	85	45	64.5	0.00
Walnut Grove				1.60		Laurel	93	40	64.7	0.00
Walnut Ranch				2.11		Lemoore	85	42	63.5	0.00
Whipple Barracks	82	26	54.2	1.40		Livermore	90	48	65.5	0.00
Willcox	85	50	65.6	0.88		Livingston	92	44	66.7	0.00
Wilpus				1.25		Long Beach	96	50	65.0	0.00
Woodruff				0.50		Los Angeles	96	46	66.7	0.02
Yuma	92	55	69.6	1.70		Los Banos (2)	80	52	68.2	0.00
Arkansas.						Los Gatos (1)	88	46	65.3	0.00
Arkansas City				3.47		Los Gatos (2)	85	41	61.6	0.00
Camden	84	37	61.7	4.46		Mammoth Tank	96	52	71.9	0.30
Conway	82	34	58.6	2.57		Martinez	82	47	62.7	0.00
Dardanelle				3.40		Milton (near)	82	46	66.5	0.00
Devall's Bluff	85	26	60.4	2.05		Marysville	90	56	66.5	0.00
Forrest City	86	32	62.6	2.01		Menlo Park	86	41	58.9	0.00
Fulton				1.45		Merced	118	0	65.8	0.00
Harrisburgh	85	28	57.8	3.18		Modesto	86	47	67.3	0.02
Helena (1)				4.17		Mojave	85	41	64.0	0.00
Helena (2)				3.26		Monson	87	45	62.0	0.00
Hot Springs	87	31	60.5	2.25		Montague	72	46	56.4	0.00
Lead Hill	91	30	59.9	2.28		Monterey	86	36	58.7	0.00
Lonoke	86	35	63.1	1.75		Monterey (H. d. M.)	87	38	57.6	0.00
Malvern	84	52	66.1	0.18		Napa	72	42	54.9	0.00
Newport (1)				2.26		Newhall	97	35	63.0	0.00
Newport (2)	86	28	59.4	2.56		Newman	86	54	70.5	0.00
Oseola	87	28	58.9	2.91		Niles	86	42	60.8	0.00
Ozone	79	34	57.2	2.63		Norman	100	53	71.5	0.00
Pine Bluff	86	34	63.0	1.48		Normark	100	53	71.5	0.00
Prescott	81	38	61.8	3.09		Oakland (1)	90	43	61.8	0.00
Russellville	84	33	60.8	2.74		Oakland (2)*	72	46	58.5	0.00
Stuttgart	85	26	59.2	2.56		Ogilby	105	58	79.8	0.14
Texarkana	86	35	64.4	3.09		Ontario	100	45	72.0	0.16
Washington	86	35	63.5	3.55		Orland	97	45	67.6	0.00
Winslow	84	33	56.8	3.13		Oroville	97	45	67.9	0.00
California.						Pajaro	100	33	58.7	0.00
Alcades	85	50	67.2	0.00		Paso Robles	88	35	58.8	0.00
Alcatraz Island	85	45	59.0	0.00		Petaluma	90	41	64.7	0.00
Almaden	86	45	62.5	0.00		Placerville (1)*	87	42	60.8	0.00
Anaheim	100	56	68.7	0.00		Placerville (2)*	79	33	55.7	0.00
Angel Island	91	40	62.2	0.00		Pomona	106	44	69.8	0.04
Antioch	82	54	64.1	0.04		Porterville	87	42	59.0	0.00
Aptos	90	38	59.3	0.00		Presidio of S. F.	84	40	60.9	0.00
Athlone	92	40	65.7	0.00		Puento	93	45	66.6	0.00
Auburn	87	40	63.3	0.14		Ravenna	90	32	63.9	0.00
Bakersfield	86	48	65.8	0.00		Redding	98	45	64.1	0.00
Barstow	89	37	63.4	0.00		Riverside	97	38	63.0	0.07
Beaumont	90	40	66.4	0.00		Rocklin	89	45	64.9	0.00
Belmont	85	42	62.6	0.00		Rumsey	99	48	67.0	0.00
Benicia Barracks	89	45	64.6	0.00		Sacramento (1)	75	34	53.9	0.01
Berendo	85	52	66.9	0.00		Sacramento (2)	76	47	61.4	0.00
Berkeley	86	46	59.8	0.00		Salinas (1)*	94	44	65.39	0.00
Bishop Creek	85	40	59.5	0.00		Salinas (2)*	95	42	59.9	0.00
Boca	83	22	48.9	0.70		Salton	100	48	72.6	0.00
Boulder Creek	96	29	54.8	0.00		Sanger Junction	95	48	67.6	0.00
Brighton	94	50	66.9	0.00		San Ardo	96	42	65.6	0.00
Byron	84	50	66.0	0.00		San Diego B'ks	89	46	65.5	0.02
Caliente	88	43	63.3	0.00		San Gabriel	90	36	61.5	0.00
Calistoga	88	34	60.0	0.00		San Jose	85	42	60.5	0.00
Castroville	87	42	60.6	0.00		San Mateo	83	40	57.2	0.10
Centerville	93	48	68.2	0.00		San Miguel	96	46	67.3	0.00
Chico	92	47	63.7	0.00		San Pedro	95	50	68.6	0.00
Cisco	65	29	45.6	0.55		Santa Ana	95	54	71.6	0.00
Colfax	87	40	63.3	0.00		Santa Barbara (1)	96	44	64.0	0.05
Colton	100	39	64.4	0.00		Santa Barbara (2)	89	49	65.4	0.00
Corning	85	50	67.4	0.00		Santa Cruz (1)*	92	42	61.2	0.00
Crescent City				1.11		Santa Cruz (2)*	92	38	59.0	0.00
Davisville	87	42	64.9	0.00		Santa Margarita	86	30	55.8	0.00
Delano	89	44	66.6	0.00		Santa Monica	86	48	64.3	0.09
Delta	88	35	59.7	0.40		Santa Paula	88	48	67.9	0.00
Downey	94	52	69.7	0.00		Santa Rosa	86	40	61.3	0.00
Lunigan	88	49	67.2	0.00		Selma	89	42	62.1	0.00
El Dorado	89	45	64.7	0.10		Seven Palms	86	40	69.0	0.00
Elmira	90	47	68.2	0.00		Shingle Springs	85	48	61.3	0.06
El Verano	84	38	60.9	0.00		Sims	86	31	54.4	0.00
Emigrant Gap	72	29	52.5	0.65		Sisson	73	27	46.2	0.13
Esparto	91	46	65.1	0.00		Soledad	92	40	60.0	0.00